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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-21-58** **Date: 14-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP,
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra I ayout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4 4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	12-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.89	-
2	Finess by Air permeablity method (m^2/kg,Min)	348.4	225m^2/kg, Min
3	Density (gm/cc)	3.18	
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Note:

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R KARTHIK RECHAN

Authorized Signatory

Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-02-21-58** **Date: 09-01-19**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benaguluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	12-12-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-58** **Date: 14-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-58** **Date: 14-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.3	
3	Specific Gravity	2.64	--
4	Bulk Density(Loose) (Kg/l)	1.41	--
5	Bulk Density(Compacted) (Kg/l)	1.47	--
6	Water Absorption(%)	0.23	--

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-02-21-58** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-12-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-02-21-58** **Date: 13-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	
4	Bulk Density(Loose) (Kg/l)	1.43	
5	Bulk Density(Compacted) (Kg/l)	1.49	
6	Water Absorption(%)	0.23	
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-02-21-58** **Date: 13-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	11-12-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-02-21-58** **Date: 13-12-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-02-21-58** **Date: 17-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	15-12-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2018

Lab ID	:	CP-2019-02-21-58
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.54 X 151.46 X 150.03	22649	8.009	409.6	18.1	18.3
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.01 X 150.84 X 150.87	22477	8.634	418.3	18.6	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.43 X 151.59 X 151.87	22955	9.004	418.8	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2018

Lab ID	:	**CP-2019-02-21-58**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.02 X 151.55 X 151.76	22736	8.009	414.1	18.2	18.3
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.43 X 151.96 X 150.64	23012	8.634	427.6	18.6	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.23 X 150.46 X 151.79	22454	9.004	407.6	18.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-02-21-58** **Date: 21/01/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division

Agency : Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023

Customer's Reference : EE/DD/WO/276/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-12-18

Customer ID : Bottom Slab Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.77 X 150.71 X 149.61	22573	8.653	540.0	23.9	23.1
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.30 X 150.23 X 151.13	22430	8.495	503.0	22.4	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.08 X 149.51 X 149.49	22437	8.956	517.8	23.1	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 31/12/2018

Lab ID	:	CP-2019-02-21-58
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bengaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5
Date of test	:	31/12/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	150.02 X 151.50 X 150.39	22727	8.009	412.4	18.1	18.5
2	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	151.69 X 149.13 X 150.59	22621	8.634	422.0	18.7	
3	Bottom Slab Drain Concrete	M20	24/12/2018	31/12/2018	149.36 X 149.05 X 149.63	22262	9.004	416.1	18.7	

AEE

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-02-21-58 **Date: 21/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-12-18
Customer ID	:	Bottom Slab Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	151.00 X 150.44 X 151.96	22716	8.653	535.9	23.6	23.3
2	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	150.13 X 151.21 X 150.74	22701	8.495	516.7	22.8	
3	Bottom Slab Drain Concrete	M20	24/12/2018	21/01/2019	149.29 X 149.83 X 150.59	22369	8.956	526.4	23.5	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-58** **Date: 08/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-01-19
Customer ID	:	Side Wall Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	150.26 X 149.89 X 151.22	22522	8.009	413.2	18.3	18.7
2	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	150.14 X 151.65 X 150.53	22769	8.634	430.5	18.9	
3	Side Wall Drain Concrete	M20	01/01/2019	08/01/2019	149.07 X 151.26 X 149.23	22550	9.004	425.3	18.9	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-02-21-58** **Date: 29/01/2019**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division

Agency : Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023

Customer's Reference : EE/DD/WO/276/18-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-01-19

Customer ID : Side Wall Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Side Wall Drain Concrete	M20	01/01/2019	29/01/2019	150.81 X 149.60 X 150.18	22560	8.653	538.0	23.8	23.4
2	Side Wall Drain Concrete	M20	01/01/2019	29/01/2019	151.44 X 149.77 X 150.73	22681	8.495	511.4	22.5	
3	Side Wall Drain Concrete	M20	01/01/2019	29/01/2019	150.60 X 150.47 X 149.19	22660	8.956	538.5	23.8	

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Page 1/1
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-02-21-58** **Date: 12/01/2019**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-01-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/01/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	05/01/2019	12/01/2019	150.85 X 150.16 X 149.27	22652	8.009	413.6	18.3	18.3
2	Culvert Concrete	M20	05/01/2019	12/01/2019	149.94 X 151.82 X 151.85	22764	8.634	420.5	18.5	
3	Culvert Concrete	M20	05/01/2019	12/01/2019	149.71 X 149.56 X 149.41	22391	9.004	406.7	18.2	

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Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2019-02-21-58**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division
Agency	:	Sri R.Shivaram, #4/13, Avallamma Choultry, Magadi Road, Benagaluru-560023
Customer's Reference	:	EE/DD/WO/276/18-19
Source of Sample	:	*Sample supplied by Agency*
Sample Condition	:	Satisfactory
Date of Receipt	:	07-01-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 02/02/2019

Date of test : 02/02/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	05/01/2019	02/02/2019	149.36 X 150.86 X 150.88	22532	8.653	535.4	23.8	23.3
2	Culvert Concrete	M20	05/01/2019	02/02/2019	151.52 X 149.80 X 151.75	22698	8.495	517.6	22.8	
3	Culvert Concrete	M20	05/01/2019	02/02/2019	151.94 X 151.28 X 149.70	22986	8.956	537.7	23.4	

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CIVIL Pro BANGALORE Sig..... Date.....

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-02-21-58**	**Date: 16-12-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Road and Drains at Raghavendra Layout Main and Cross Roads in Ward No 12 in Shettyhalli Sub Division	
Agency	:	Sri R.Shivaram, #4/13, Avalamma Choultry, Magadi Road, Benagaluru-560023	
Customer's Reference	:	EE/DD/WO/276/18-19	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	11-12-18	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	12/12/2018	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

To,

Date: 25-04-2019

ASSISTANT EXECUTIVE ENGINEER

SHETTYHALLI SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/S. Civil Pro Services for the work of IMPROVEMENTS TO ROADS AND DRAINS AT RAGHAVENDRA LAYOUT MAIN AND CROSS ROADS IN WARD NO 12 IN SHETTYHALLI SUB DIVISION.

Ref: 1. Work Order No: EE/DD/WO/276/18-19

2. Job code: 012-18-000058

We are herewith forwarding to R. Shivaram, #4/13, Avalamma Choultry, Magadi Road, Bangalore-560023. First and Final Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs.98,82,056/- (Rs. Ninety Eight Lakhs EightY Two Thousand and Fifty Six Only).

AE

Thanking you,

Yours faithfully,

For Civil Pro

R. KARTHIK RECHAN
AUTHORIZED SIGNATORY
CIVIL PRO

CIVIL PRO Sig Date BANGALORE

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